

Claims:-

1. Hinge for doors and similar construction components, with which a door (31) which has been installed within a door frame can be turned, whereby the same incorporates one hollow profile (28, 33) with one recess (27, 32) each, characterised in that the hinge (1, 50) can be installed within the recess (27) of the door frame, and in that the hinge is completely received into the door when the same is closed, so that the same hinge is completely invisible when the door (31) is closed.
2. Hinge according to Claim 1, characterised in that the hinge (1) can be inserted into the recess (27) through an installation opening (29) located within the hollow profile (28), the dimensions of which are sized to suit those of the hinge.
3. Hinge according to Claim 1 or 2, characterised in that the hinge is equipped with two hinge flaps (2, 3) which are connected with one another with the aid of a hinge bolt (4), one of which incorporates a flat-angled simple flap profile on the hinge flap (2) that is nearest to the door frame, whilst the hinge flap (3) that is nearest to the door is equipped with a multi-angled flap profile which encloses the hinge bolt (4).
4. Hinge according to Claim 3, characterised in that the hinge flap (2) that is nearest to the door frame can be flanged onto the internal wall of the hollow profile (28) of the door frame.
5. Hinge according to Claim 3 or 4, characterised in that one of the hinge flaps is positioned in a height-adjustable manner within the said hollow profile.

6. Hinge according to one of the preceding Claims 3 to 5, characterised in that one of the hinge flaps (2) consists of two flap halves (5a, 5b) which are located on both side of the other hinge flap (3), whereby the said hinge flaps (2, 3) are rotationally connected with one another with the aid of the hinge bolt (4).

7. Hinge according to one of the preceding Claims 3 to 6, characterised in that the hinge flap (3) that is nearest to the door can be flanged onto an insertion pocket (17) which can be installed into the recess (32) of the door (31).

8. Hinge according to Claim 7, characterised in that the recess (32) is formed by the internal space of a hollow profile (33) of the door (31), and in that the insertion pocket (17) can be inserted through an opening (34) of the hollow profile (33), the size of which is suited to the dimensions of the relevant outside diameter of the insertion pocket, into the recess (32).

9. Hinge according to Claim 7 or 8, characterised in that the insertion pocket (17) consists of an internal tab (18) and an external tab (19) resting upon the former, which are screwed to one another with the aid of set screws (20) positioned at their respective ends for the adjustment of the door in the direction of the door level, whereby the internal tab (18) can be flanged onto the internal wall of the hollow profile (33) of the door, and whereby the external tab (19) is equipped with an adjustment bolt with an eccentric cam (36) which is rotationally positioned within the insertion pocket (17), for the adjustment of the door across the direction of the door level, whereby the same co-operates with a keyhole-shaped opening (12) within the fitting flange (11) of the hinge flap (3) that is nearest to the door.

10. Hinge according to Claim 1, characterised in that for the fitting of the flap halves (52a, 52b) that the one of the hinge flaps that can be installed inside the hollow profile (28) further

incorporates a cover plate (68) which lies externally and adjacent to the hollow profile (28) as well as the relevant fittings, which enable a simple and height-adjustable installation of the hinge flap onto the hollow profile.

11. Hinge according to one of the preceding Claims 1 to 10, characterised in that an opening (69) is positioned below the hinge (52, 53), whereby the same extends straight across the hollow profile (28) and the cover plate (68), whereby the same receives a lifting key for the installation, i.e. for the height adjustment of the hinge (52, 53) within, i.e. in relation to the hollow profile.

12. Tool for the adjustment of a hinge according to Claim 11, characterised in that the said tool takes the form of a lifting key with which the hinge (52, 53) can be manually adjusted in relation to the hollow profile (28).

13. Tool according to Claim 12, characterised in that the lifting key consists of a square section (60') for the lifting of the flap half (52a) of the hinge, and a grip element for the manual activation of the key which preferably projects at a right angle from the same square section (60').